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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,215	03/09/2004	Scott T. Moore	10000-353	2716
Lawrence G. Almeda, Esq. BRINKS HOFER GILSON & LIONE			EXAMINER LANG, AMY T	
			3731	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
. 3 MON	THS	04/25/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)		
Office Action Summany	10/796,215	MOORE ET AL.		
Office Action Summary	Examiner	Art Unit		
	Amy T. Lang	3731		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
 1) Responsive to communication(s) filed on <u>02 Fe</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
 4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-35 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the control of the correct and the correct of the control of the correct of the	epted or b) objected to by the ld drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate		

Application/Control Number: 10/796,215

Art Unit: 3731

DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.

The new grounds of rejection set forth below are necessitated by applicant's amendment filed on 02/02/2007. In particular, claims 1, 11, 23, 29, 30, and 35. This combination of limitations was not present in the original claims. Thus, the following action is properly made final.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-3, 5-10, 23-28, and 30-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilson et al (US 6,425,898) in view of Ravenscroft (US 5,702,418).

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Wilson et al. disclose a stent delivery system comprising an introducer tube (24). a pusher assembly that includes a first tubular portion (16) and a second tubular portion (18), the second tubular portion including a flexible portion 17 with a greater degree of flexibility than the first tubular portion (col. 5, lines 15-44). Wilson et al. disclose the second portion comprises a stent-loading portion and pusher members (21, 22) that engage the stent to slide it into position (col. 4, lines 15-27). As shown in the figure 5, the diameter of the second portion is smaller than the diameter of the first portion. Wilson et al. discloses a radiopaque filler in the pusher member (col. 6, lines 18-22). Wilson et al. disclose the pusher 22 may be formed of materials known in the art; including polytetrafluoroethylene (col. 5, lines 59-65). Regarding claims 7, 8, and 9, Wilson et al. disclose the second tubular portion comprised of a metal-reinforced polymer material (70), including braided polyimide tubing (col. 5, lines 27-35). The second tubular portion may also be composed of Nitinol (col. 5, line 32). The proximal surface of the pusher member, subject to lateral bending stresses, would open kinks as the martensite phase transforms back into the austenite phase of the shape memory metal in the system.

As shown in the figures, Wilson et al. disclose the second tubular portion extending to the distal tip, with the stent-carrying portion and flexible section being one element, with the distal tip being tapered to receive the stent (figures 4-6). In figure 3, the pusher member has a diameter equal to or greater than the stent (20b).

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Wilson et al discloses that the first tubular member may be made from any suitable material know to those of ordinary skill in the art, but does not specifically disclose a non-rigid polymer (column 5, lines 23-27).

Ravenscroft teaches a similar stent delivery system comprising a first tubular portion (15), a second tubular portion (16 and 17) and a pusher member (23) (Figure 5, column 5, lines 3-53). The first tubular portion (15) is further disclosed as a plastic material such as PEBAX®, which clearly overlaps the instantly claimed non-rigid polymer (column 5, lines 23-30). Since Ravenscroft discloses a similar device with a first tubular portion comprised of a non-rigid polymer and Wilson et al is open to the material of the first tubular member, it would have been obvious to one of ordinary skill at the time of the invention for the first tubular member of Wilson et al to be comprised of a non-rigid polymer.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilson et al. (US 6,425,898) in view of Ravenscroft (US 5,702,418) and Kugler et al. (US 6,790,222).

Wilson et al. disclose a stent delivery system, and the structures of an introducer tube, a pusher member, a first and second tubular portion, and a distal tip. However, Wilson et al. fail to teach the pusher member composed of a low density polymer. Kugler et al. teach a similar delivery system, with an outer layer designed to reduce friction, and an inner layer (190) composed of a low-density polyethylene. The low density polyethylene in Kugler et al. provides some resilience in the outer sheath.

Therefore, it would have been obvious to one of ordinary skill in the art to manufacture the pusher member of Wilson et al. from a low density polymer.

5. Claims 11-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilson et al. (US 6,425,898) in view of Ravenscroft (US 5,702,418) and Kugler et al. (US 6,790,222).

Wilson et al. disclose a stent delivery system substantially as claimed, and the structures of an introducer tube, a pusher member, a first and second tubular portion, and a distal tip. The pusher members are configured to slidably deploy the stent from the introducer catheter. Wilson et al. fail to disclose the soft pusher member composed of a low density polymer. Kugler et al. teach a similar stent delivery system, with an introducer catheter comprised of a polytetrafluoroethylene outer sheath to reduce friction. The inner sheath is composed of a low density polyethylene, to provide resilience to the system while maintaining stability when stresses are applied.

Therefore, it would have been obvious to one of ordinary skill in the art to manufacture the pusher member of Wilson et al. from a low density polymer in view of the teachings of Kugler et al.

6. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilson et al. (US 6,425,898) in view of Ravenscroft (US 5,702,418) and Kugler et al. (US 6,790,222).

Wilson et al. disclose a stent delivery system substantially as claimed, comprising an introducer catheter with a distal end and a distal portion, a stent preloaded within the distal portion, a pusher assembly including a pusher member configured to slidably deploy the stent. The pusher assembly includes a first and second tubular portion, with a flexible section that is configured to adjust to lateral bending stresses within the body without kinking. Wilson et al. fails to disclose the soft pusher member composed of a low density polymer.

Kugler et al. teach a sheath comprised of a low density polymer, configured to add resilience while maintaining structural stability. Kugler et al. additionally teach the importance of maintaining resistance to stresses ion the body, to minimize the stress that the stent is subjected to, which may cause premature fatigue fractures. Therefore, it would have been obvious to one of ordinary skill in the art to manufacture the pusher member of Wilson et al. from a low density polymer.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy Lang whose telephone number is (571) 272-9057. The examiner can normally be reached on Monday - Friday, 8:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan Nguyen can be reached on (571) 272-4963. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Date Amy T. Lang

ATL

ANHTUAN T. NGUYEN
SUPERVISORY PATENT EXAMINER

4/23/67.